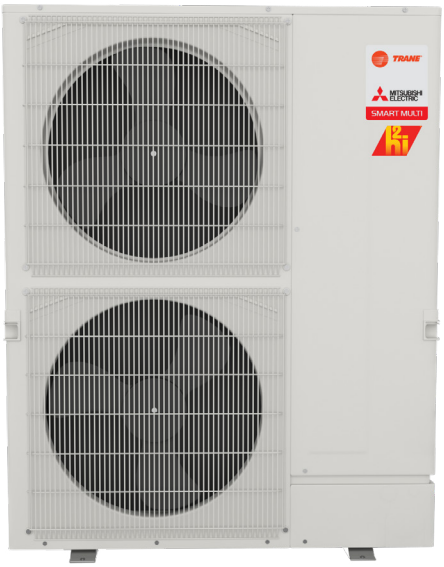
NTXMSH42A152BA
3.5-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM

Job Name:	
System Reference:	Date:



FEATURES

- Compatible with NV- and P-Series and CITY MULTI® indoor units. Branch box required for connection with NV- and P-Series
- Variable speed INVERTER-driven compressor
- Seacoast protection on heat exchanger and base panel (rated for 2,000 hrs in accordance with ASTM B117 testing)
- Thermal Differential 1°F (with TAC-MKA32/52BC only)
- Built-in base pan heater
- Quiet outdoor unit operation, rated sound pressure as low as 50 dB(A)
- High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection
- Hyper-heating performance offers 100% heating capacity at 5°F and 75% heating capacity at -13°F

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

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SPECIFICATIONS: NTXMSH42A152BA

Cooling[1] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	42,000 // 42,000 // 42,000 | 42,000 // 42,000
	Rated Capacity	BTU/H	42,000 // 42,000 // 42,000 | 42,000 // 42,000
	Minimum Capacity	BTU/H	14,000 // 14,000 // 14,000 | 14,000 // 14,000
	Maximum Power Input	W	3,135 // 3,550 // 3,965 | 3,550 // 3,965
	Rated Power Input	W	3,135 // 3,550 // 3,965 | 3,550 // 3,965
	Power Factor (208V, 230V)	%	98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5 | 98.5, 98.5 // 98.5, 98.5
Heating at 47°F[2] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	48,000 // 48,000 // 48,000 | 48,000 // 48,000
	Rated Capacity	BTU/H	48,000 // 48,000 // 48,000 | 48,000 // 48,000
	Minimum Capacity	BTU/H	24,000 // 24,000 // 24,000 | 19,600 // 15,200
	Maximum Power Input	W	3,435 // 3,850 // 4,265 | 3,850 // 4,265
	Rated Power Input	W	3,435 // 3,850 // 4,265 | 3,850 // 4,265
	Power Factor (208V, 230V)	%	98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5 | 98.5, 98.5 // 98.5, 98.5
Heating at 17°F[3] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	48,000 // 48,000 // 48,000 | 48,000 // 48,000
	Rated Capacity	BTU/H	32,000 // 32,000 // 32,000 | 32,000 // 32,000
	Maximum Power Input	W	6,575 // 6,990 // 7,405 | 6,805 // 7,035
	Rated Power Input	W	3,350 // 3,553 // 3,755 | 3,553 // 3,755
Heating at 5°F[4] (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	Maximum Capacity	BTU/H	44,000 // 44,000 // 44,000 | 44,000 // 44,000
	Maximum Power Input	W	6,450 // 6,693 // 6,935 | 6,890 // 7,330
Efficiency (Non-Ducted // Mix (Mid-static) // Ducted (Mid-static) | Mix (High-static) // Ducted (High-static))	SEER2		21.5 // 19.75 // 18.0 | 18.85 // 16.2
	EER2[1]		13.4 // 12.0 // 10.6 | 12.0 // 10.6
	HSPF2 (IV)		11.1 // 10.55 // 10.0 | 10.1 // 9.1
	COP at 47°F[2]		4.1 // 3.7 // 3.3 | 3.7 // 3.3
	COP at 17°F at Maximum Capacity[3]		2.14 // 2.02 // 1.9 | 2.07 // 2.0
	COP at 5°F at Maximum Capacity[4]		2.3 // 2.15 // 2.0 | 2.03 // 1.76
	ENERGY STAR® Certified		Yes // Yes // No | No // No
Electrical	Electrical Power Requirements	Voltage, Phase, Frequency	208/230, 1, 60
	Guaranteed Voltage Range	V AC	187-253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size if Branch Box Powered by Outdoor Unit	A	45
	Recommended Fuse/Breaker Size without Branch Box or Branch Box Powered Separate	A	40
	Recommended Wire Size (Indoor - Outdoor) if Branch Box Powered by Outdoor Unit	AWG	6
	Recommended Wire Size (Indoor - Outdoor) without Branch Box or Branch Box Powered Separate	AWG	8
	MCA if Branch Box Powered by Outdoor Unit	A	51.0
	MOCP if Branch Box Powered by Outdoor Unit	A	86
	MCA without Branch Box or Branch Box Powered Separate	A	45
	MOCP without Branch Box or Branch Box Powered Separate	A	80
	Fan Motor Full Load Amperage	A	0.6+0.6

NOTES:

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)

[1]Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB

[2]Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB

[3]Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB

Conditions [4]Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

*Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

*A when 1 or more PLA-A·EA7 connected

*B Branch box should be placed within the level between the outdoor unit and indoor units

*C 5°F DB - 115°F DB when optional wind baffles are installed

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.

Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

Mid and high external static pressure tests conducted at 0.3 and 0.5 in.w.g. respectively, according to AHRI 210/240. The external static pressures utilized have no bearing on the capabilities of the indoor unit; please refer to the indoor unit manual to select the correct external static pressure setting for the application.

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SPECIFICATIONS: NTXMSH42A152BA

Outdoor unit	Airflow Rate (Cooling / Heating)	CFM	3,885 / 3,885
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate fin coil
	Heat Exchanger Coating		Blue Fin Coating
	Sound Pressure Level, Cooling[1]	dB(A)	50
	Sound Pressure Level, Heating[2]	dB(A)	54
	Compressor Type		Hermetic
	Compressor Model		ANB33FJSMT
	Compressor Motor Output	kW	2.9
	Compressor Rated Load Amps	A	19
	Compressor Locked Rotor Amps	A	22.0
	Compressor Oil Type // Charge	oz.	FV50S // 73
	Base Pan Heater		Built-in
	Unit Dimensions	W: In. [mm]	41-11/32 [1,050]
		D: In. [mm]	13 [330]
		H: In. [mm]	52-11/16 [1,338]
	Package Dimensions	W: In. [mm]	43 [1,090]
		D: In. [mm]	18 [450]
		H: In. [mm]	57 [1,430]
	Unit Weight	Lbs.[kg]	278 [126]
	Package Weight	Lbs.[kg]	302 [137]
Outdoor unit operating temperature range	Cooling Intake Air Temp (Maximum / Minimum*)	°FDB	115 / 5*C
	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	N/A / N/A
	Heating Intake Air Temp (Maximum / Minimum)	°FDB	59 / -13
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	-24 / -14
Refrigerant	Pre-Charged Refrigerant Amount	Lbs, oz	10.0, 9.0
Indoor unit connection	Maximum Number of Connected IDU with Branch Box		5 (4)*A
	Maximum Number of Connected IDU without Branch Box		12
	Minimum Connected Capacity with Branch Box		12,000
	Minimum Connected Capacity without Branch Box		21,000
	Maximum connected capacity		54,000
Piping	Liquid Pipe Size O.D. (Flared)	In.[mm]	3/8 [9.52]
	Gas Pipe Size O.D. (Flared)	In.[mm]	5/8 [15.88]
	Total Piping Length when using Branch Box	Ft. [m]	492 [150]
	Total Piping Length without Branch Box	Ft. [m]	984 [300]
	Maximum Height Difference*B, ODU above IDU	Ft. [m]	164 [50]
	Maximum Height Difference*B, ODU below IDU	Ft. [m]	131 [40]
	Maximum Height Difference*B, between branch boxes	Ft. [m]	49 [15]
	Maximum Height Difference between IDU and IDU without branch box	Ft. [m]	49 [15]
		Ft. [m]	49 [15]
	Maximum Piping Length between ODU and Branch Box	Ft. [m]	180 [55]
	Farthest Piping Length from ODU to IDU with Branch Box	Ft. [m]	262 [80]
	Farthest Piping Length from ODU to IDU without Branch Box	Ft. [m]	492 [150]
	Farthest Piping Length after Branch Box	Ft. [m]	82 [25]
	Total Piping Length between Branch Boxes and IDU	Ft. [m]	311 [95]
	Maximum Number of Bends for IDU		15

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OUTDOOR UNIT ACCESSORIES: NTXMSH42A152BA

Stand	Outdoor Unit Stand — 12” High	☐ QSMS1202M
Branch Box	5 Port Branch Box	☐ PAC-MKA53BC
Control/Service Tool	Maintenance Tool Interface	☐ PAC-USCMS-MN-1
Control Wire	M-Net Control Wire, 1,000’ Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	☐ CW162S-1000
Stand	18” Dual Fan Stand	☐ QSMS1802M
Branch Box	3 Port Branch Box	☐ PAC-MKA33BC
Stand	24” Dual Fan Stand	☐ QSMS2402M
	Condenser Wall Bracket - Stainless Steel Finish	☐ QSWBSS
Control Wire	M-Net Control Wire, 250’ Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	☐ CW162S-250
Stand	Condenser Wall Bracket	☐ QSWB2000M-1
Branch Box	Branch Box Enclosure	☐ BBE-1
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	☐ S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	☐ S144-50
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	☐ S164-50
Ball Valve	Refrigeration Ball Valve - 1/2”	☐ BV12FFSI2
Mini-Split Wire	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	☐ S164-250
Ball Valve	Refrigeration Ball Valve - 1/4”	☐ BV14FFSI2
Port Adaptor	Adaptor: 1/4” x 3/8”	☐ PAC-493PI
Branch Box	3 Port Branch Box	☐ TAC-MKA32BC
	5 Port Branch Box	☐ TAC-MKA52BC
Port Adaptor	Adaptor: 3/8” x 5/8”	☐ PAC-SG76RJ-E
Air Outlet Guide	Air Outlet Guide (1 Piece)	☐ PAC-SH96SG-E (two pieces are required)
Centralized Drain Pan	Central Drain Pan	☐ PAC-SH97DP-E
Wind Baffle	Front Wind Baffle	☐ WB-PA3 (two pieces are required)
Port Adaptor	Adaptor: 3/8” x 1/2”	☐ MAC-A454JP-E
	Adaptor: 1/2” x 3/8”	☐ MAC-A455JP-E
	Adaptor: 1/2” x 5/8”	☐ MAC-A456JP-E
Distribution pipe	Flare Connection	☐ MSDD-50AR-E
	Brazed Connection	☐ MSDD-50BR-E
Air Deflector	Vertical Air Deflector	☐ ADV-1
Ball Valve	Refrigeration Ball Valve - 3/8”	☐ BV38FFSI2
	Refrigeration Ball Valve - 5/8”	☐ BV58FFSI2
Mini-Split Wire	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	☐ SW164-50
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	☐ SW144-250
Drain Socket	Drain Socket	☐ PAC-SG60DS-E
Mini-Split Wire	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	☐ SW164-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	☐ SW144-50
Stand	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	☐ DSD-400P
Hail Guards	Hail Guard	☐ HG-A2

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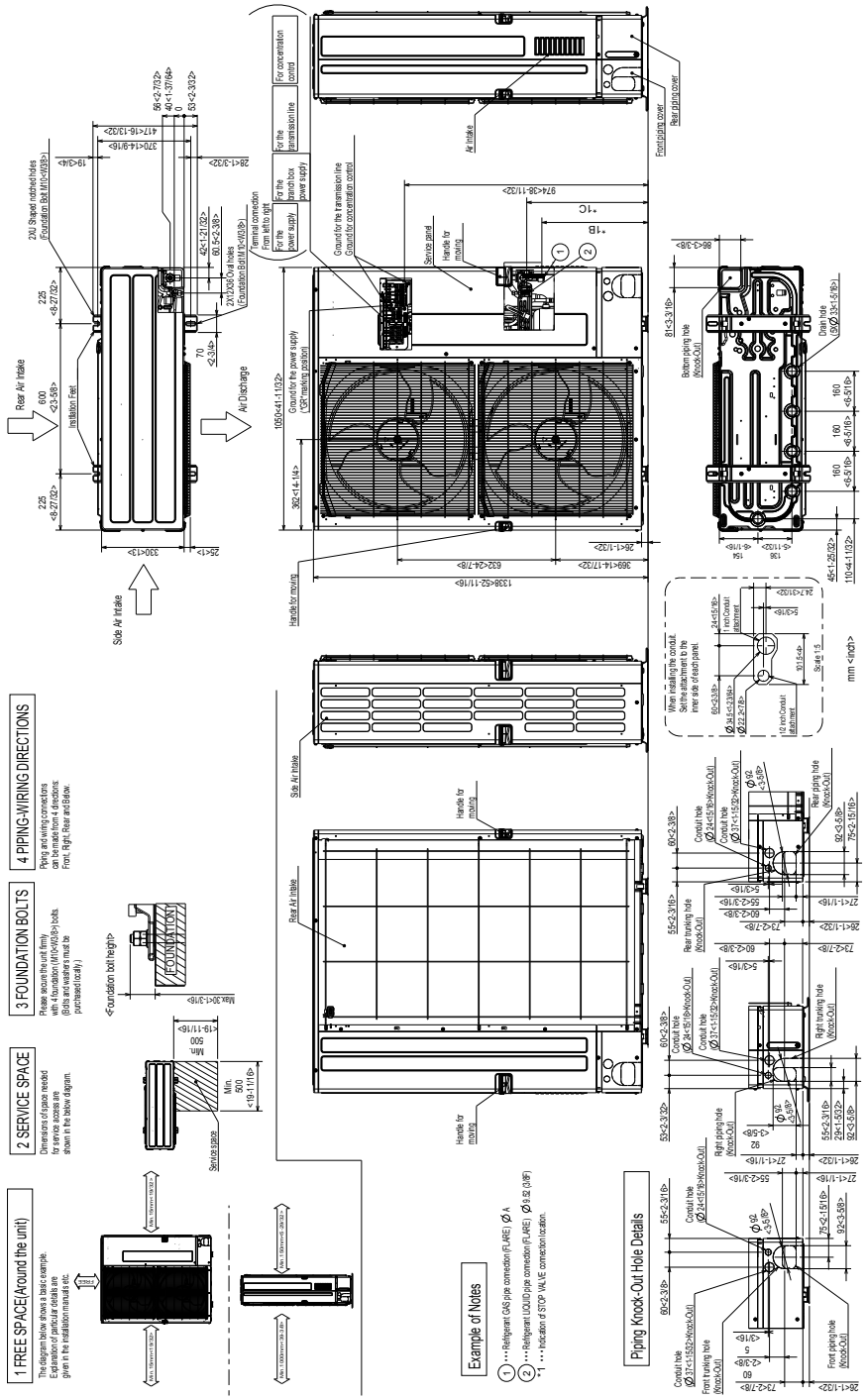
OUTDOOR UNIT DIMENSIONS: NTXMSH42A152BA

Unit: mm
<inch>



MODEL NAME	DIMENSION A	DIMENSION B	DIMENSION C
NTXMSH36A142AA	15.88 (5/8F)	426 <16-25/32>	485 <19-3/32>
NTXMSH42A152AA			
NTXMSH48A182AA			
NTXMSM60A182AA	19.05 (3/4F)	393 <15-15/32>	450 <17-23/32>
NTXMSM36A142AA	15.88 (5/8F)	426 <16-25/32>	485 <19-3/32>
NTXMSM48A182AA			

FORM# NTXMSH42A152BA - 202407

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